



Zone-Builder® Subsoiler

Deep-till Legroom
from the High *IQ** Line

* *I*nnovative design • *Q*uality manufacturing

Deep-till Legroom for Your Crops from the High IQ* Line



Like tree roots in a too-small container, your performance would likely be less than its best if you had to live and work each day in such cramped spaces. Crops are no different. Yields suffer when compaction keeps roots from growing freely throughout the soil in search of moisture and nutrients. The Zone-BUILDER® subsoiler from Unverferth lets plants stretch their legs (and their roots) by opening passageways through the hardpan with minimal surface disruption.



\$14 Per Acre Payback!

Long-term university studies show that deep-tilling enhances yield. In ten years of accumulated research at the Northwest Branch of the Ohio Agricultural Research and Development Center, corn and soybean yields averaged 4-5 percent higher where soil was deep-tilled. Assuming an average corn yield of 150 bushels per acre and a selling price of \$2 per bushel, that's a payback of \$14 per acre! Subsoiling also resulted in yield increases even on soil that was not compacted.



Model 130



Model 120



Model 110

The Zone-Builder subsoiler is available in three models with differing trip mechanisms to match your operation.

Model 130

The model 130 features innovatively designed shear bolt-free, automatic-reset shanks that trip rearward and upward from a single pivot point to virtually eliminate maintenance and downtime caused by rocks and other in-field obstacles.

The adjustable point load of either 6,000 or 6,400 pounds assures consistent working depth in a wide variety of soil conditions. This model is designed specifically for rocky soils and provides up to 40 percent greater point load than previous models and 2–3 times greater than competitive brands.

Model 120

Compression spring-cushioned reset shanks on the model 120 feature 20 inches of vertical travel and maintain 5,040 pounds of point load throughout the trip cycle.

The massive, 6³/₈" - diameter single-coil compression spring with a welded pull-arm keeps the shank position stable and eliminates wandering. This reset is ideally suited for use in extremely tight soils.

Model 110

Shanks on the model 110 are protected by 7,500 pounds of shear pressure. This model is best suited for use in rock-free soils.

Unmatched durability

The Zone-Builder subsoiler's heavy-duty, double-frame, all-welded construction, with 6" x 6" rear bar, features exceptional underframe clearance of 38" for improved residue flow. Its powder-coat finish in tractor red or green provides a long-lasting, corrosion-resistant finish.

Low-disturbance shank style

Zone-Builder subsoiler shanks shatter hardpan up to 26 inches deep and are designed specifically for minimal surface and sub-surface soil disturbance. They're 3/4" wide and constructed of special alloy steel for maximum strength and capped with 1 3/4"- wide, replaceable, raised center points that dig down and through hardpan. The triangular-shaped, forged, invertible wearbars add to shank durability.

Coulters

Heavy-duty swivel coulters with 1,500 pounds of down-pressure cut easily through the heaviest residue and are positioned directly ahead of the shanks for optimum residue flow.

The blades ride on the 6-bolt hub for extra durability. Two heavy-duty tapered roller bearings are protected with triple-lip seals, O-rings and recessed hub caps with retaining rings for long-term, trouble-free use.

All models can be equipped with 20-inch-diameter rippled blades. Models 130 and 110 Zone-Builder subsoilers can also be equipped with 24-inch-diameter straight blades.

Tillage With A Purpose

Hardpan or a compaction zone reduces potential crop yield because it prevents plant roots from access to soil moisture and nutrients beneath the pan. Limiting that access means plants are more subject to the stresses of drought or excess soil moisture. A subsoiling operation with the Zone-Builder implement helps shatter that pan and creates openings in it through which plant roots can grow and thrive.





Zone-Firmer press wheel for seedbed leveling



Strip-BUILDER attachment for earlier planting



Shank-Stagger Kit for increased residue flow

Zone-Firmer press wheels

Optional Zone-Firmer press wheels, mounted directly behind the shank, feature easily adjusted downpressure from 0 to 360 pounds to create a more level soil surface.

Strip-tillage attachment

You can combine the yield-enhancing effects of the Zone-BUILDER implement with the Strip-BUILDER attachment to create strips of raised, mulched soil for faster soil warmup and earlier planting. The Strip-BUILDER attachment can also be equipped with a 15-inch Rolling Harrow® basket for additional soil firming.

The 1-inch fluted, 13-wave, 17-inch-diameter blades are angle, width and depth adjustable to create a 12- to 15-inch wide, slightly raised seedbed for enhanced germination and vigorous early plant growth. The parallel-linkage, spring-tension adjustment is easily set for smooth, consistent and uniform blade penetration.

Planting in this tilled strip ensures proper positioning of the plants for optimum root growth and movement through the openings in the hardpan created by the deep-till shanks.

Shank customizers

Raised-center, 1³/₄" forged points are standard on all Zone-BUILDER subsoilers. **Flat, chrome-capped points** for rocky soils are also available.

Optional **shatter wings** can be mounted at either of two locations on the shank for increased soil and hardpan fracturing. The wings can be set from 0° - 14° slope to match the desired level of fracturing. Mounting the wings behind the point eases tractor-pulling requirements.

Optional 1/4" -thick, abrasion-resistant **steel shank protector kits** add to shank life. An optional **Shank-Stagger Kit** that increases residue flow and reduces horsepower-pulling requirements is also available.

Varying row widths

The Zone-BUILDER subsoiler is available in 2- to 12-shank models with factory-set, 30-inch row spacings. Its innovative frame and shank design, with bolt-on frame extensions, creates the flexibility for the user to set shank spacings from 20 to 40 inches.

All Zone-BUILDER subsoiler models feature stubble-resistant tires and stabilizer wheels to assure a consistent working depth. Rigid-frame models are equipped with new, 8-ply 7.60 x 15 tires and folding models have 8-ply 9.5L x 15 tires.



Raised-center points



Flat, chrome-capped points



Shatter wings



Shank protector



Row markers for operator accuracy



Light and reflector package for transport safety



Folding frame for safer transport

Row markers

Row markers feature notched blades that leave a highly visible mark which allows the operator to accurately maintain the desired row spacing. The markers are shear bolt-protected for added durability.

Vertical-fold markers are available on 4- to 8-row models. Bi-fold markers, which fold flat, are available for 8- to 10-row models, and 12-row models can be equipped with flat-stacking trifold markers.

Pull-type hitch

The pull-type hitch option easily attaches at the 3-point hitch connection. Implement operating depth is controlled by two rephase hydraulic cylinders (four cylinders for 12-shank models). The hydraulics allow the Zone-Builder subsoiler to be evenly raised and lowered while mechanical stops ensure consistent depth control.

Rigid-frame Zone-Builder subsoilers are available with dual transport wheels. Depending on the wheel package selected, the wheels can be positioned either in front of, or behind the frame.

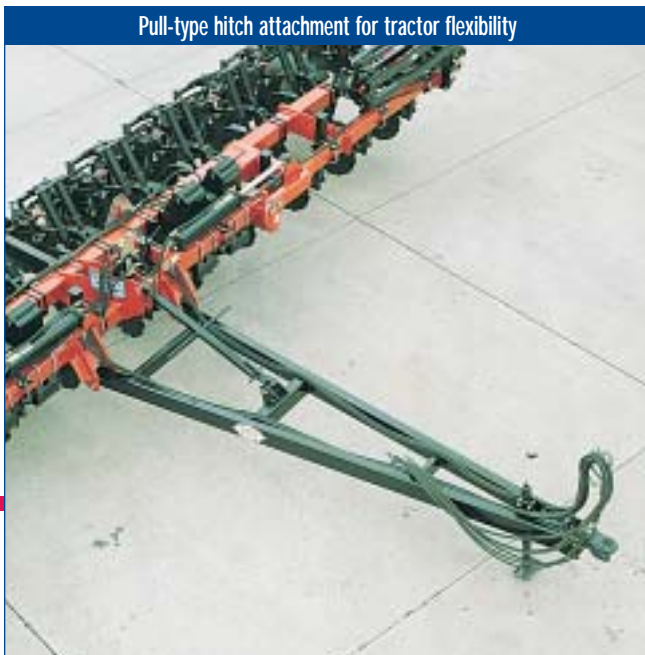
Lighting package

An optional light package, including all reflective markings, meets or exceeds all current state and A.S.A.E. standards and is available for all Zone-Builder subsoiler models.

Rolling Harrow® conditioner

The optional Rolling Harrow® conditioner can be added to the Zone-Builder subsoiler to chop and evenly distribute residue for faster soil warmup and more even emergence. Rolling Harrow baskets are available in single, 15-inch baskets that are mounted behind each shank or as a complete, self-contained unit across the entire width of the Zone-Builder subsoiler.

Field-proven, angled, scalloped blades are designed specifically for aggressive, residue-cutting and chopping action. The solid-steel, 1-inch-diameter center shaft and spring-adjusted downpressure ensure level, consistent operation. Heavy-duty roller bearings are protected with triple-lip seals for enhanced durability. Robotic welding assures exacting manufacturing specifications.



Pull-type hitch attachment for tractor flexibility



Rolling Harrow conditioner for improved seedbed

Zone-Builder® Subsoiler Specifications

HP REQUIREMENTS OF 30-50 HP PER SHANK

Model Size	Approximate Weight			Transport Width*	
	Model 130 Auto-Reset	Model 120 Spring-Cushioned Reset	Model 110 Shear Bolt-Protected	Stabilizer Wheels Outboard	Stabilizer Wheels Inboard
2-shank	1,470	2,058	1,400	—	8' 2"
3-shank	2,193	2,781	2,107	—	8' 2"
4-shank*	2,616	3,400	2,488	11' 4"	8' 6"
5-shank*	3,043	4,023	2,883	13' 10"	11'
6-shank*	3,581	4,757	3,389	16' 6"	13' 8"
7-shank*	4,063	5,435	3,838	19' 6"	16' 4"
7-shank, folding	4,863	6,235	4,638	16' 5"	—
8-shank*	4,601	6,169	4,345	22'	19'
8-shank, folding	5,400	6,968	5,100	15' 6"	15' 6"
9-shank, folding	5,900	7,664	5,600	16' 5"	16' 5"
10-shank, folding	6,450	8,410	6,100	15' 6"	15' 6"
12-shank, folding	7,650	10,002	7,200	15' 6"	15' 6"

Due to continuing improvements in the design and manufacture of Unverferth products, all specifications contained herein are subject to change without notice.

Note: For rigid models with row markers, add 1' 7" to transport width with stabilizer wheels outboard.

*Outboard: Stabilizer wheels are positioned outside of shanks

Inboard: Stabilizer wheels positioned behind rear frame between two outer shanks.

For complete details on the Zone-Builder subsoiler and all Unverferth tillage equipment, see your Unverferth dealer today.
For the dealer nearest you, call 1-800-322-6301
or check our Web site at:

unverferth.com



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